

REMARKS

Amendments

Revisions to the Specification

Applicant has amended the specification to correct a label. No new matter has been added.

Amendments to the Claims

Applicant has amended claims 2, 11, 16 and 23. No new matter has been added as a result of these amendments.

Rejections

Rejections under 35 U.S.C. § 112, first paragraph

Claims 2-9, 11-14, 16-21, and 23-26

Claims 2-9, 11-14, 16-21, and 23-26 stand rejected under the first paragraph of 35 U.S.C. § 112 for failing to comply with the enablement requirement. The Examiner asserts that it is not clear “how Applicant’s invention utilizes a[n] unified memory architecture while consisting of separate physical memories.” Applicant respectfully responds that Applicant’s unified memory architecture comprises one memory controller for the main and video memories. (Figure 2, Memory Controller 201) For example, in one embodiment, Applicant’s memory controller maps the frame-preparation memory to the main memory and the refresh memory to a separate, dedicated memory. This is in contrast to a non-unified memory architecture that consists of separate memory controllers for the main and video memories.

Furthermore, the Examiner asserts that the specification and drawings do not support two logical buffers, with one buffer in main memory and the other buffer in a separate physical memory. Applicant respectfully disagrees. Figure 2 clearly shows frame-preparation buffer 205 included in the main memory 203 with the refresh memory 207 mapped to a separate, dedicated memory. Figure 2 further shows the color buffer spanning both the main memory 203 and the separate, dedicated memory. Figure 3 additionally discloses refresh memory mapped to dedicated memory separate from the

main memory. Therefore, Applicant respectfully submits that claims 2-9, 11-14, 16-21, and 23-26 satisfy the requirements of 35 U.S.C § 112, first paragraph and respectfully requests the withdrawal of the rejection of the claims under § 112.

Rejections under 35 U.S.C. § 112, second paragraph

Claims 2-9, 11-14, 16-21, and 23-26

Claims 2-9, 11-14, 16-21, and 23-26 stand rejected under 35 U.S.C. § 112, second paragraph.

Applicant respectfully submits that claims 2-9, 11-14, 16-21, and 23-26, as amended, satisfy the requirements of 35 U.S.C § 112, second paragraph.

Furthermore, the Examiner asks if Applicant is using the terms “mapping” and “copying” interchangeably. Applicant respectfully submits that Applicant is not using these terms interchangeably. For example, in claim 11, Applicant claims “copying the color data from the frame-preparation memory to the refresh memory” and “mapping the address space for the frame-preparation memory onto a physical device for the main memory and the address space for the refresh memory onto a physical memory device”. Applicant respectfully submits that Applicant is consistent in using “mapping” and “copying” as represented in claim 11 and does not use these terms interchangeably.

Therefore, Applicant respectfully submits that claims 2-9, 11-14, 16-21, and 23-26 satisfy the requirements of 35 U.S.C § 112, second paragraph and respectfully requests the withdrawal of the rejection of the claims under § 112.

SUMMARY

Claims 2-9, 11-14, 16-21 and 23-26 are currently pending. In view of the foregoing revisions and remarks, Applicant respectfully submits that the pending claims are in condition for allowance. Applicant respectfully requests reconsideration of the application and allowance of the pending claims.

If the Examiner determines the prompt allowance of these claims could be facilitated by a telephone conference, the Examiner is invited to contact Eric Replogle at (408) 720-8300 x258.

Deposit Account Authorization

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due. Furthermore, if an extension is required, then Applicant hereby requests such extension.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR
& ZAFMAN LLP

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